



December 7, 2005

COPY

Ms. Bonnie Rolandelli
Associate Engineering Geologist
Regional Water Quality Control Board, North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, CA 95403

Re: **Groundwater Monitoring Report, Third Quarter 2005**
Westport Community Store:
37001 North Highway One, Westport, Mendocino County, California
Clearwater Group Project No. ZB308E
Regional Water Quality Control Board Case No. 1TMC404
USTCF Claim No. 14259

Dear Ms. Rolandelli,

The Clearwater Group (Clearwater), on behalf of Mr. and Mrs. Charles Eagleton, is pleased to present the results of groundwater monitoring activities at the above-referenced property (**Figure 1**) for your review, comments and direction.

SITE DESCRIPTION

The site is located on a sloping coastal shelf which grades westwards, and is approximately 80 feet above sea level. The Pacific Ocean shoreline lies 600 feet west of the project site. The project site is located on undifferentiated early Tertiary marine sediments; the immediate vicinity is underlain by clay-rich soils derived from the hills which rise sharply to the east. A seasonal, westward-flowing creek lies about ¼ mile south of the property, and Wages Creek, which also flows westward, lies about ¾ of a mile north of the property.



The town of Westport, with a population of about 50 people, has its own Community Water District, an agency which manages a potable water system, sewer system, and community fire department. Potable water for the area is supplied by Wages Creek, which lies about ½ mile to the north of the site. Water is pumped from the creek and filtered to a 100,000-gallon storage tank ¼ mile northeast of the town. Both Wages Creek and the water tank locations can be seen on Figure 1. High clay content in the local soils results in low percolation and high run off of surface waters. Occupants of the town used to get water from small domestic wells: one still sits in the back yard of the subject property. However, due to percolation and runoff effects, the local domestic wells became contaminated from septic field leachate waters. In response to this, in 1972, the State of California required the establishment of a Community Water District, and the town's water system was built in 1978.

INVESTIGATION BACKGROUND

The subject property is a combination residence, small community store and gas station. The gas station and community store have been in operation since the 1960s. One 1,000-gallon and one 550-gallon underground storage tank (UST) were removed from the property on November 20, 1998, and replaced with a 550 gallon above ground storage tank system. Soil and water samples collected during the excavation were shown by lab analyses to contain elevated concentrations of fuel hydrocarbons. In a letter dated February 16, 1999, the North Coast Regional Water Quality Control Board (NCRWQCB) requested that the spatial distribution of hydrocarbons in the subsurface be investigated.

Pursuant to the NCRWQCB's requests, Clearwater was retained, and installed, developed, surveyed and sampled three monitoring wells (MW-1, MW-2, and MW-3) at the subject location in July 1999. As indicated in Clearwater's letter *Phase II Initial Subsurface Investigation, Well Installation, Groundwater Monitoring Report* (September 17, 1999), only one groundwater sample from the three monitoring wells, MW-1, contained detectable elevated concentrations of any fuel additives, specifically methyl tertiary butyl ether (MTBE). No detectable concentrations of fuel hydrocarbons were found in any of the soil samples collected during well installation (Table 1 and Table 2).



In response to the results of this initial investigation, the NCRWQCB requested that the downgradient extent of the MTBE at the site be completely delineated (October 25, 1999). Clearwater was again retained, and installed two additional monitoring wells (MW-4 and MW-5) to the west and downgradient from the other three wells and the store in April, 2000, and afterwards completed four quarters of groundwater monitoring of all five site wells, as specified in its workplan, and approved by the NCRWQCB. In Clearwater's report *Additional Site Investigation* (May 8, 2000), and final *Groundwater Monitoring Report, First Quarter 2001* (March 9, 2001), it was shown that no fuel hydrocarbons were detected in either of these new wells, and that MTBE at the site was limited to detection in MW-1.

Groundwater monitoring resumed April of 2003 after verbal direction was received from the NCRWQCB to perform four quarters of groundwater monitoring. The NCRWQCB also renewed their request for the submittal of a Site Conceptual Model (SCM). Clearwater submitted a SCM for the subject property to the NCRWQCB in January of 2004. The Board's acceptance of the SCM was followed with a request for further site investigation focusing on the area in the immediate vicinity of the location of the former USTs and the dispenser area. The Board requested the additional work in order to help determine the status of the project. Clearwater submitted a *Workplan for Further Investigation* to the NCRWQCB on February 12, 2004. The workplan was approved by the NCRWQCB in their February 26, 2004 letter.

On August 3, 2004 Clearwater supervised the drilling of five soil borings using direct push technology. Fast-Tek Engineering Support Services (Fast-Tek) of Point Richmond, California (C-57 license number 624461) advanced soil borings B-1 through B-5 to approximately 20 feet bgs. The soil samples collected at the termination of each soil boring, approximately 20 feet bgs, were retained for analysis by Kiff for concentrations of total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethyl benzene and xylenes (BTEX), MTBE, tertiary butyl alcohol (TBA), tertiary amyl methyl ether (TAME), ethyl tertiary butyl ether (ETBE), diisopropyl ether (DIPE) by EPA method 8260B at Kiff Analytical LLC (Kiff), Davis, California, a California Department of Health Services certified laboratory. A grab ground water sample was also collected at the termination of each soil boring and submitted for the same analytical suite. Clearwater summarized the findings in a report, *Results of Additional Investigation*, dated September

24, 2004, concluding that the tight clay formation observed while drilling indicated a relatively low K value (hydraulic conductivity) while the high TPHg to benzene ratio indicated the presence of weathered gasoline. The concentration of TPHg reported for the grab groundwater samples ranged in value from 1,400 µg/L (B-2) to 150 µg/L. Benzene was reported in only two of the grab groundwater samples B-3 (4.9 µg/L) and B-4 (8.10 µg/L). The concentration of MTBE reported in the samples collected from B-1 through B-4 ranged in value from 130 µg/L (B-3) to 13 µg/L (B-2) (Table 2).

During the first quarter groundwater monitoring event conducted on February 18, 2005, Clearwater personnel discovered that the well casing of MW-3 was damaged and thus unmonitable per standard operating procedures outlined in Clearwater's Field Protocols (**Attachment A**). The cause of the damage is unknown. Due to the current curve of the pipe, a standard 2-inch diameter bailer does not descend past a depth of 2-feet bgs. Clearwater personnel succeeded in sampling monitoring well MW-3 with a 0.5-inch diameter disposable polyethylene bailer due to the damaged well casing. The samples collected from the well are considered to be grab samples due to minimal water movement achieved when using a small diameter bailer.

In response to the request for site closure made in the *Groundwater Monitoring Report, Second Quarter 2005* prepared by Clearwater, the NCRWQCB per their June 27, 2005 letter adjusted the groundwater monitoring program instead of granting site closure. The NCRWQCB could not concur with the recommendation for site closure due to the presence of MTBE in MW-1. The groundwater monitoring program has been reduced from a quarterly to semi-annual basis. Since their installation, petroleum related hydrocarbons have not been detected in groundwater monitoring wells MW-2, MW-4 and MW-5 and therefore they are to be used for groundwater gradient and direction purposes only. The NCRWQCB also requested that MW-3 be repaired.

Clearwater began to plan for the repair of MW-3; however, when the high cost to repair the well was established, Clearwater contacted the NCRWQCB to discuss the proposal. During telephone and email correspondence between Clearwater and NCRWQCB personnel it was determined that MW-3 did not need to be repaired unless additional subsurface investigation was to be conducted onsite. Clearwater also reiterated the recommendation for the preparation of an interim remedial action plan to address the



need to actively remediate the concentrations of MTBE observed in MW-1. The NCRWQCB did not concur with the recommendation for the preparation of a workplan. However, they did state that they would review the project history and determine the best course of action for the project.

GROUNDWATER MONITORING AND FIELD ACTIVITIES

Clearwater conducted groundwater monitoring and sampling field activities on August 3, 2005. All work was performed in accordance with Clearwater's Field Protocols (**Attachment A**). The wells were checked for the presence of SPH. An electronic water level indicator was used to gauge depth to water accurate to within ± 0.01 feet. Groundwater monitoring well MW-1 was purged of groundwater until sampling parameters (e.g. temperature, pH and conductivity) stabilized, which occurred by approximately three wet casing volumes. Clearwater personnel attempted to purge groundwater monitoring well MW-3 using an electric groundwater pump. Groundwater monitoring and well purging information was recorded on the Well Gauging/Purging Calculations and Purge Data Log sheets (**Attachment B**). To prevent cross-contamination, monitoring and purging devices were decontaminated between wells in an Alconox® wash followed by double rinsing in clean tap water. Following the recovery of water levels to at least 80% of their static levels, Clearwater collected groundwater samples from the monitoring wells using new disposable polyethylene bailers. The groundwater sample collected from MW-3 is considered to be a "grab sample" since the monitoring well ran dry before a single casing volume could be removed. Samples were labeled, documented on a chain-of-custody form, and placed on ice in a cooler for transport to the project laboratory. Purge and rinse water was collected in a 250-gallon portable holding tank and transported to the Clearwater equipment yard in Point Richmond, California. At the yard the investigation derived waste was then transferred to 55-gallon drums pending disposal at Instrat a disposal facility located in Rio Vista, California.

The groundwater samples from MW-1 and MW-3 were analyzed for TPHg, BTEX, MTBE, TBA, TAME, ETBE, DIPE, 1, 2-Dichloroethane (1, 2-DCA) and 1, 2-Dibromoethane (EDB) at Kiff (see Kiff laboratory report # 45217 in **Attachment C**).



GROUNDWATER MONITORING RESULTS

On August 3, 2005, the depth of water ranged from 9.78 feet bgs (MW-4) to 17.49 feet bgs (MW-3) creating a gradient of 0.046 feet/feet in a north by northwest direction (Figure 3). Observable floating product was not detected in any of the monitoring wells. Concentrations of MTBE above the laboratory reporting limit of 0.50 parts per billion or micrograms per liter ($\mu\text{g/L}$) were detected in the groundwater samples collected from both MW-1 and MW-3 this quarter. The concentration of MTBE ranged in value from 1.0 $\mu\text{g/L}$ (MW-3) to 130 $\mu\text{g/L}$ (MW-1). A reportable concentration of TBA was also detected in the samples collected from MW-1 at 14 $\mu\text{g/L}$. No other petroleum related hydrocarbons were reported above the standard laboratory reporting limits (Table 3).

CONCLUSIONS FOR THE THIRD QUARTER

During the last three quarters the MTBE concentrations observed in MW-1 have not varied significantly. The concentration of MTBE observed in MW-1 experienced a declining trend during the same period of the hydrologic cycle in 2004 (Figure 4). It appears that the concentration of MTBE may have stabilized, though the groundwater elevations observed in MW-1 still fluctuate seasonally (Figure 5). The concentrations of MTBE reported in the samples collected from MW-3 have also appeared to have stabilized. The groundwater gradient continues to be in a west by northwest direction.

RECOMMENDATIONS

The levels of the concentrations of MTBE observed in MW-3 may be related to the compound's dispersive abilities, or may be due to an upgradient source. Since the NCRWQCB has stated that the project site cannot be closed due to the presence of MTBE, Clearwater recommends that an interim remedial action plan be prepared to address this concern.

CERTIFICATION

This report was prepared under the supervision of a Professional Geologist in the State of California. All statements, conclusions and recommendations are based solely upon published results from previous consultants, field observations by Clearwater and laboratory analyses performed by a State of California certified laboratory related to the work performed by Clearwater.

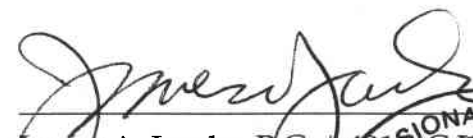
Information and interpretation presented herein are for the sole use of the client and regulating agency. The information and interpretation contained in this document should not be relied upon by a third party.

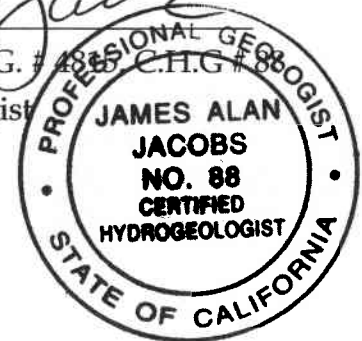
The service provided by Clearwater has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of this profession currently practicing under similar conditions in the area of the site. No other warranty, expressed or implied, is made.

Prepared by:

Reviewed by:


Jessica Chiaro-Moreno
Project Manager


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Chief Hydrogeologist



cc Mr. Charles W. Eagleton, 16499 Crescent Court, Hidden Valley Lake, CA, 95461



FIGURES:

- Figure 1: Site Location Map
- Figure 2: Site Plan
- Figure 3: Groundwater Elevation Map - 8/03/05
- Figure 4: First Order Rate of Decay, MTBE Concentrations in MW-1
- Figure 5: Groundwater Elevations Observed in MW-1

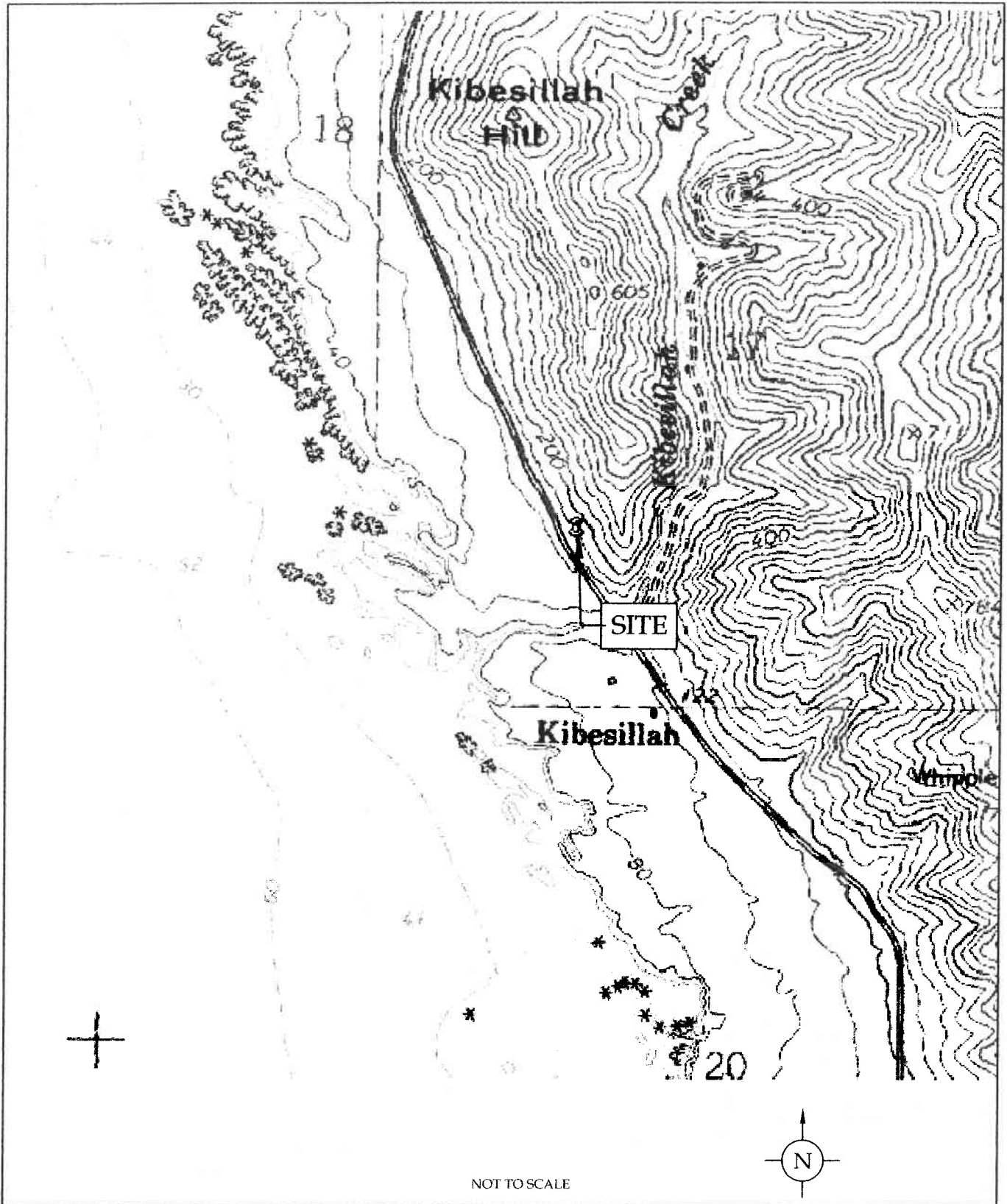
TABLES:

- Table 1: Groundwater Monitoring Well Construction Details
- Table 2: Soil Sampling Analytical Results
- Table 3: Groundwater Elevations and Sample Analytical Results

ATTACHMENTS:

- Attachment A: Clearwater Field Protocols
- Attachment B: Clearwater Gauge/Purge Calculations & Well Purging Data Log Sheets
- Attachment C: Laboratory Report # 45217 and Chain-of-Custody Form

FIGURES



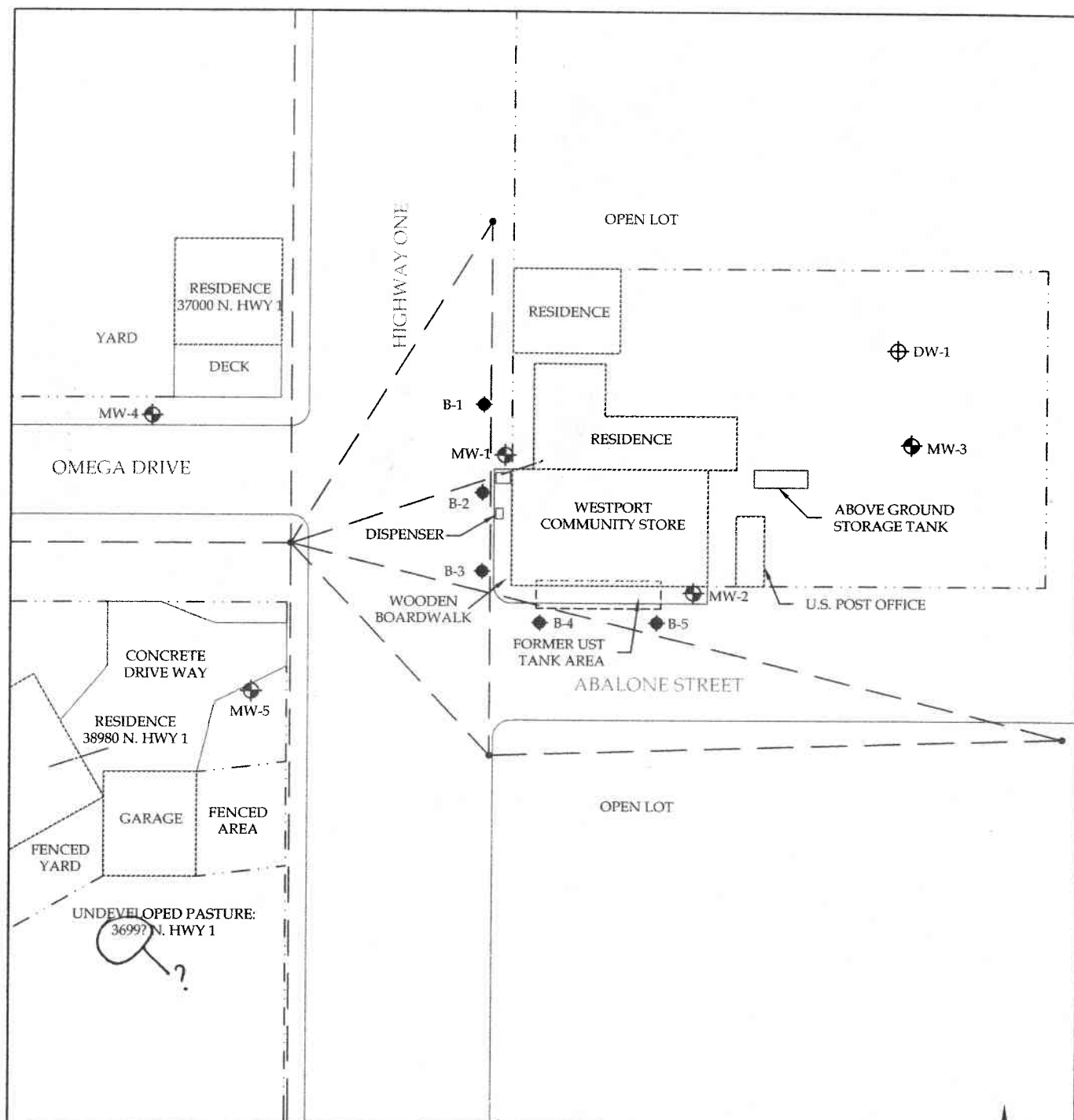
SITE LOCATION MAP
Westport Community Store
37001 North Highway 1
Westport, California

CLEARWATER GROUP

Project No.
ZB308

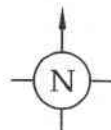
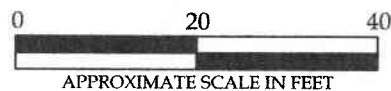
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Figure
1



LEGEND

- | | | | |
|-----|------------------------------|--------|---------------------|
| --- | PROPERTY LINE | ◆ MW-1 | MONITORING WELL |
| --- | ELECTRICAL & TELEPHONE LINES | ⊕ DW | DOMESTIC WATER WELL |
| • | ELECTRICAL POLE | ◆ B-4 | BORING LOCATION |



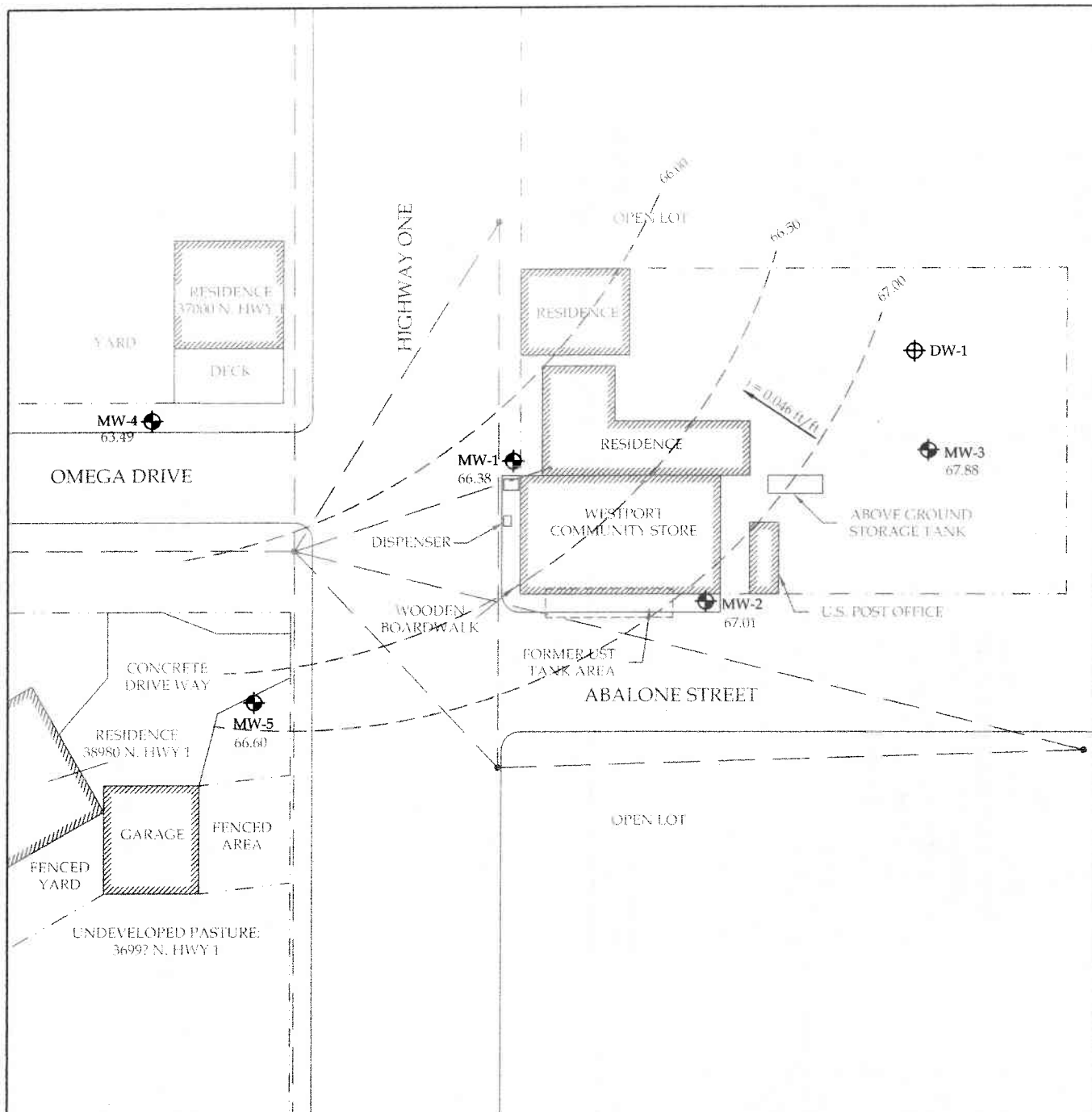
SITE PLAN
Westport Community Store
37001 North Highway 1
Westport, California

CLEARWATER GROUP

Project No.
ZB308

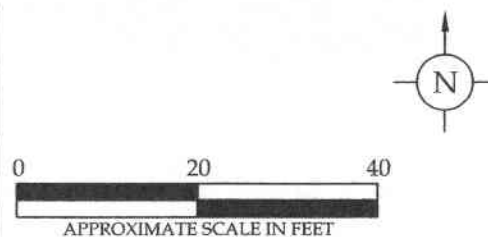
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2



LEGEND

67.21	GROUNDWATER ELEVATION ON 4/11/00 (APPROX. FEET MSL)	◆ MW-1	MONITORING WELL
	ESTIMATED GROUNDWATER ELEVATION CONTOUR (APPROX. FEET MSL)	⊕ DW	DOMESTIC WATER WELL
		◆ PB-4	PROPOSED BORING
0.05 FT/FT	APPROX. GROUNDWATER FLOW DIRECTION & GRADIENT	70.73*	ANOMALOUS DATA; NOT USED IN GWE CONTOUR



GROUNDWATER ELEVATIONS AUGUST 3, 2005

Westport Community Store
37001 North Highway 1
Westport, California

CLEARWATER GROUP

Project No.
ZB308E

Figure Date
8/05

Figure
3

FIGURE 4
First Order Rate of Decay
MTBE Concentrations in MW-1
Westport Community Store
37001 North Highway 1
Westport, CA
ZB308E

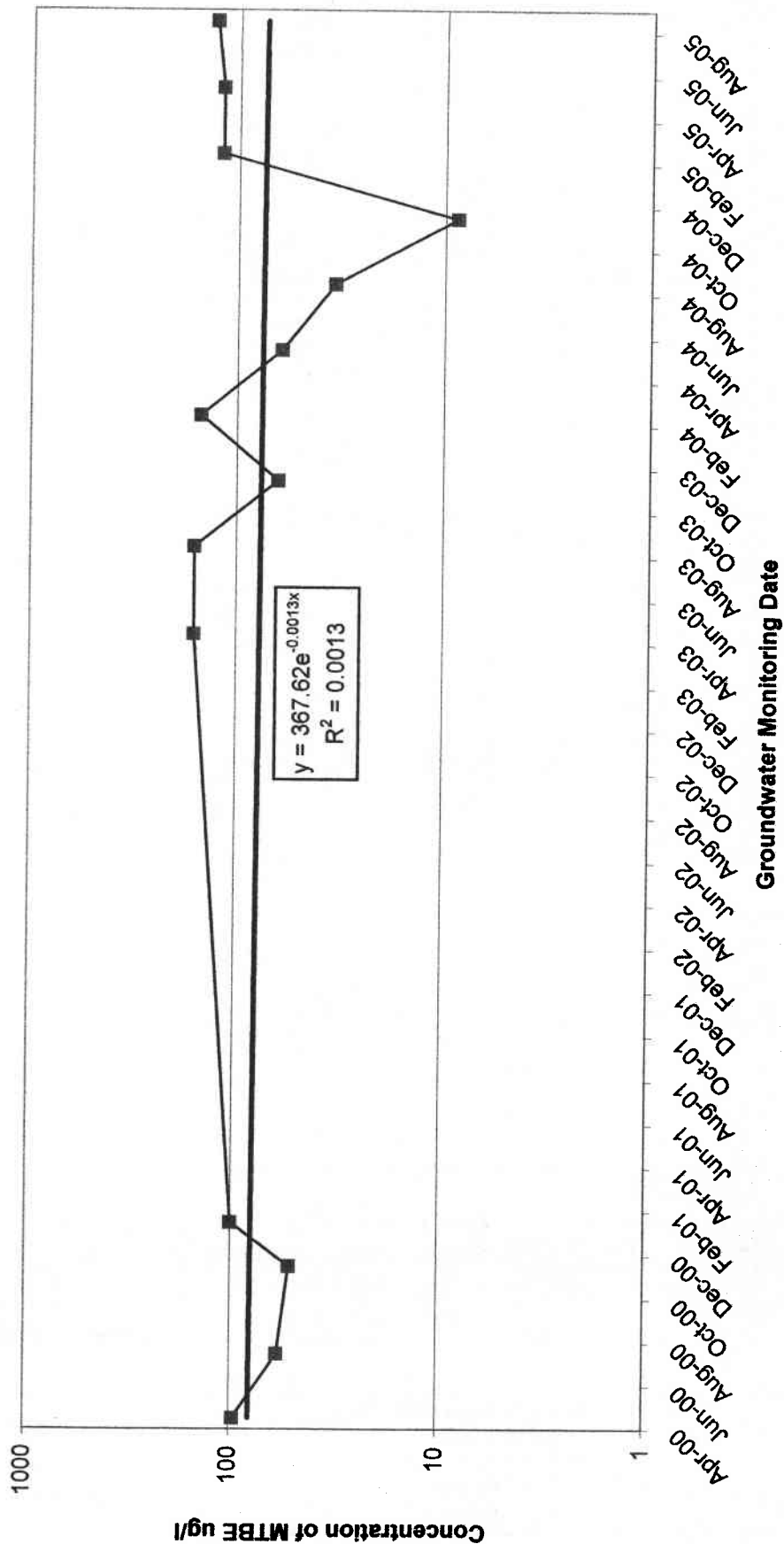
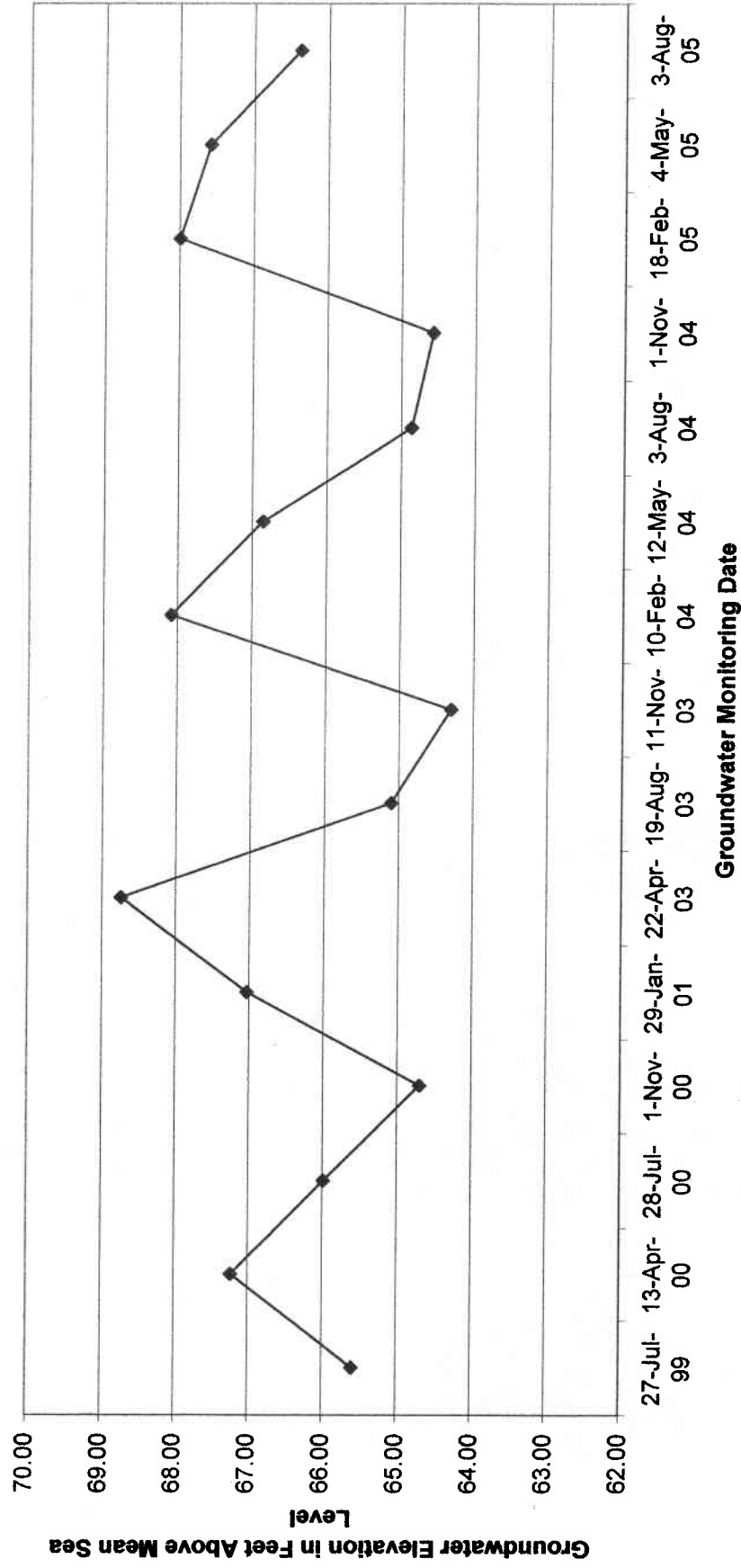


FIGURE 5
Groundwater Elevations Observed in MW-1
Westport Community Store
37001 North Highway 1
Westport, CA
ZB308E



TABLES

TABLE 1
GROUNDWATER MONITORING WELL CONSTRUCTION DETAILS
 Westport Community Store
 37001 North Highway 1
 Westport, CA
 Clearwater Group Project No. ZB308E

WELL No.	CONSTRUCTION Date	WELL			TOTAL DEPTH (feet bgs)	SCREENED INTERVAL (feet bgs)	SAND PACK INTERVAL (feet bgs)	BENTONITE INTERVAL (feet bgs)	CONCRETE INTERVAL (feet bgs)
		WELL CASE DIAMETER (Inches)	BORING DIAMETER (Inches)						
MW-1	13-Jul-99	2	8		21	5-20	3-21	2-3	0-2
MW-2	13-Jul-99	2	8		21	5-20	3-21	2-3	0-2
MW-3	13-Jul-99	2	8		21	5-20	3-21	2-3	0-2
MW-4	13-Apr-00	2	8		21	5-20	4-21	2-4	0-2
MW-5	13-Apr-00	2	8		18	4.5-17.5	3.5-18	1.5-3.5	0-1.5

TABLE 2
SOIL SAMPLING ANALYTICAL RESULTS
 Westport Community Store
 37001 North Highway 1
 Westport, California
 Clearwater Project No. ZB308E

Sample (#)	Sampling Date	TPHg (mg/Kg)	TPHd (mg/Kg)	B (mg/Kg)	T (mg/Kg)	E (mg/Kg)	X (mg/Kg)	MTBE* (mg/Kg)	Lead (mg/Kg)
MW-1-10	13-Jul-99	<1	<1	<0.005	<0.005	<0.005	<0.005	<0.005	<5
MW-2-15	13-Jul-99	<1	<1	<0.005	<0.005	<0.005	<0.005	<0.005	<5
MW-3-16	13-Jul-99	<1	<1	<0.005	<0.005	<0.005	<0.005	<0.005	<5
SP-1	13-Apr-00	<1	---	<0.005	<0.005	<0.005	<0.005	<0.05	11
SP-2	13-Apr-00	<1	---	<0.005	<0.005	<0.005	<0.005	<0.05	29
SP-3	13-Apr-00	<1	---	<0.005	<0.005	<0.005	<0.005	<0.05	80
B-1 (17-18)	5-Aug-04	<1.0	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--
B-2 (15-16)	5-Aug-04	<1.0	--	<0.0050	<0.0050	0.0150	0.0240	0.0520	--
B-3 (18-19)	5-Aug-04	<1.0	--	0.0220	<0.0050	<0.0050	0.0065	0.6400	--
B-4 (18-19)	5-Aug-04	<1.0	--	0.0087	<0.0050	<0.0050	<0.0050	0.1500	--
B-5 (18-19)	5-Aug-04	<1.0	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--

NOTES: SOIL SAMPLES

TPHg	Total petroleum hydrocarbons as gasoline using EPA Method 8015/8020(modified) or 8260 in 2004
TPHd	Total petroleum hydrocarbons as gasoline using EPA Method 8015/8020(modified)
B	Benzene using EPA Method 8015/8020 (modified)or 8260 in 2004
T	Toluene using EPA Method 8015/8020 (modified) or 8260 in 2004
E	Ethyl benzene using EPA Method 8015/8020 (modified) or 8260 in 2004
X	Xylenes using EPA Method 8015/8020 (modified) or 8260 in 2004
MTBE*	Methyl tertiary-butyl ether using EPA Method 8260
	*70 other chemicals are measured by 8260 in 1999 and in 2000: all these too were ND.
Lead	Total lead by EPA Method 6010B
mg/Kg	Milligrams per kilogram (approximately equal to parts per million)
<##	Not detected in concentrations exceeding the indicated laboratory reporting limit
B-# (#-#)	Soil sample collected from specific soil boring location at corresponding depth
--	Constituent not analyzed

TABLE 3
GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS
Westport Community Store
37001 North Highway 1
Westport, California
Clearwater Project No. ZB308E

Sample (#)	Sampling Date	TOC (feet)	DTW (feet)	GWE (feet)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)
MW-1	27-Jul-99	80.00	13.81	66.19	<50	<0.50	<0.50	<0.50	<0.50	36* / 27	<5.0	<5.0	<5.0	<20
	13-Apr-00	80.00	12.18	67.82	68‡	<0.50	<0.50	<0.50	<0.50	96	--	--	--	--
	28-Jul-00	80.00	13.42	66.58	76	<0.50	1.0	<0.50	<0.50	59	--	--	--	--
	1-Nov-00	80.00	14.71	65.29	54‡	<0.50	<0.50	<0.50	<0.50	52	--	--	--	--
	29-Jan-01	80.00	12.38	67.62	66‡	<0.50	<0.50	<0.50	<0.50	100	--	--	--	--
	22-Apr-03	79.41	10.67	68.74	<50	<0.50	<0.50	<0.50	<0.50	160	<0.5	<0.5	<0.5	9
	19-Aug-03	79.41	14.31	65.10	<50	<0.50	<0.50	<0.50	<0.50	160	<0.5	<0.5	<0.5	<5.0
	11-Nov-03	79.41	15.11	64.30	<50	<0.50	<0.50	<0.50	<0.50	63	<0.5	<0.5	<0.5	<5.0
	10-Feb-04	79.41	11.33	68.08	<50	<0.50	<0.50	<0.50	<0.50	150	<0.5	<0.5	<0.5	<0.5
	12-May-04	79.41	12.56	66.85	<50	<0.50	<0.50	<0.50	<0.50	61	<0.5	<0.5	<0.5	<5.0
	3-Aug-04	79.41	14.55	64.86	<50	<0.50	<0.50	<0.50	<0.50	34	<0.5	<0.5	<0.5	<5.0
	1-Nov-04	79.41	14.84	64.57	<50	<0.50	<0.50	<0.50	<0.50	8.7	<0.5	<0.5	<0.5	<5.0
	18-Feb-05	79.41	11.42	67.99	<50	<0.50	<0.50	<0.50	<0.50	120	<0.5	<0.5	<0.5	10
	4-May-05	79.41	11.83	67.58	<50	<0.50	<0.50	<0.50	<0.50	120	<0.5	<0.5	<0.5	11
	3-Aug-05	79.41	13.03	66.38	<50	<0.50	<0.50	<0.50	<0.50	130	<0.5	<0.5	<0.5	14*
MW-2	27-Jul-99	82.18	15.39	66.79	<50	<0.50	<0.50	<0.50	<0.50	<5.0*	<5.0	<5.0	<5.0	<20
	13-Apr-00	82.18	13.82	68.36	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	28-Jul-00	82.18	14.93	67.25	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	1-Nov-00	82.18	16.47	65.71	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	22-Apr-03	81.59	12.11	69.48	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	19-Aug-03	81.59	15.88	65.71	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	11-Nov-03	81.59	16.82	64.77	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	10-Feb-04	81.59	13.31	68.28	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	12-May-04	81.59	13.97	67.62	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	3-Aug-04	81.59	16.07	65.52	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	1-Nov-04	81.59	16.53	65.06	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	18-Feb-05	81.59	Unable to Access TOC											
	4-May-05	81.59	13.32	68.27	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	3-Aug-05	81.59	14.58	67.01	--	--	--	--	--	--	--	--	--	--
MW-3	27-Jul-99	85.96	18.54	67.42	<50	<0.50	<0.50	<0.50	<0.50	<5.0*	<5.0	<5.0	<5.0	<20
	13-Apr-00	85.96	16.83	69.13	68	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	28-Jul-00	85.96	17.97	67.99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	1-Nov-00	85.96	19.55	66.41	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	29-Jan-01	85.96	17.50	68.46	110‡	<0.50	1.3	<0.50	<0.50	<5.0	--	--	--	--
	22-Apr-03	85.37	15.89	69.48	<50	<0.50	<0.50	<0.50	<0.50	0.99	<0.5	<0.5	<0.5	<5.0
	19-Aug-03	85.37	19.09	66.28	<50	<0.50	<0.50	<0.50	<0.50	0.64	<0.5	<0.5	<0.5	<5.0
	11-Nov-03	85.37	19.82	65.55	Not enough water to collect a sample									
	10-Feb-04	85.37	17.05	68.32	<50	<0.50	<0.50	<0.50	<0.50	0.83	<0.5	<0.5	<0.5	<5.0
	12-May-04	85.37	17.12	68.25	<50	<0.50	<0.50	<0.50	<0.50	1.1	<0.5	<0.5	<0.5	<5.0
	3-Aug-04	85.37	19.32	66.05	Not enough water to collect a sample									
	1-Nov-04	85.37	19.39	65.98	Not enough water to collect a sample									
	18-Feb-05	85.37	16.21	69.16	Well Casing Damaged Unable to Collect Sample									
	4-May-05	85.37	16.43	68.94	<50	<0.50	<0.50	<0.50	<0.50	1.1	<0.5	<0.5	<0.5	<5.0
	3-Aug-05	85.37	17.49	67.88	<50	<0.50	<0.50	<0.50	<0.50	1.0	<0.5	<0.5	<0.5	<5.0

TABLE 3
GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS
Westport Community Store
37001 North Highway 1
Westport, California
Clearwater Project No. ZB308E

Sample (#)	Sampling Date	TOC (feet)	DTW (feet)	GWE (feet)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)
MW-4	13-Apr-00	73.86	8.10	65.76	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	28-Jul-00	73.86	9.92	63.94	81	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	1-Nov-00	73.86	9.64	64.22	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	29-Jan-01	73.86	6.55	67.31	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	22-Apr-03	73.27	5.36	67.91	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	19-Aug-03	73.27	10.31	62.96	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	15-Nov-03	73.27	10.35	62.92	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	10-Feb-04	73.27	5.65	67.62	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	12-May-04	73.27	8.26	65.01	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	3-Aug-04	73.27	10.41	62.86	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	1-Nov-04	73.27	9.57	63.70	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	18-Feb-05	73.27	2.54	70.73	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	4-May-05	73.27	5.85	67.42	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	3-Aug-05	73.27	9.78	63.49	--	--	--	--	--	--	--	--	--	--
MW-5	13-Apr-00	77.68	9.73	67.95	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	28-Jul-00	77.68	11.13	66.55	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	1-Nov-00	77.68	12.28	65.40	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	29-Jan-01	77.68	9.75	67.93	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	22-Apr-03	77.09	7.41	69.68	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	19-Aug-03	77.09	11.80	65.29	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	11-Nov-03	77.09	12.61	64.48	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	10-Feb-04	77.09	8.50	68.59	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	12-May-04	77.09	9.88	67.21	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	3-Aug-04	77.09	11.03	66.06	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	1-Nov-04	77.09	12.31	64.78	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	18-Feb-05	77.09	8.51	68.58	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	4-May-05	77.09	9.14	67.95	<50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<5.0
	3-Aug-05	77.09	10.49	66.60	--	--	--	--	--	--	--	--	--	--
B-1	5-Aug-04	--	--	--	150	<0.50	<0.50	0.64	1.20	33	<0.50	<0.50	<0.50	<5.0
B-2	5-Aug-04	--	--	--	1,400	<0.50	<0.50	10	16.0	13	<0.50	<0.50	<0.50	<5.0
B-3	5-Aug-04	--	--	--	670	4.90	0.52	0.51	2.90	130	<0.50	<0.50	<0.50	8.80
B-4	5-Aug-04	--	--	--	<50	8.10	<0.50	<0.50	<0.50	93	<0.50	<0.50	<0.50	9.50(j)
B-5	5-Aug-04	--	--	--	<50	<0.50	0.58	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0

TABLE 3
GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS
Westport Community Store
37001 North Highway 1
Westport, California
Clearwater Project No. ZB308E

Sample (#)	Sampling Date	TOC (feet)	DTW (feet)	GWE (feet)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)
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NOTES:

DTW	Depth to water
TOC	Top of well casing (Surveyed to Mean Sea Level [MSL] on April 22, 2003)
GWE	Groundwater elevation relative to MSL (GWE = TOC - DTW)
TPHg	Total petroleum hydrocarbons as gasoline using EPA Method 8015 (modified)
B	Benzene using EPA Method 8020
T	Toluene using EPA Method 8020
E	Ethylene using EPA Method 8020
X	Xylenes using EPA Method 8020
MTBE	Methyl tertiary-butyl ether using EPA Method 8260
DIPE	Diisopropyl ether using EPA Method 8260
ETBE	Ethyl tertiary-butyl ether using EPA method 8260
TAME	Tertiary-amyl methyl ether using EPA method 8260
TBA	Tertiary butanol using EPA method 8260
µg/L	Micrograms per liter (approximately equal to parts per billion: ppb)
<###	Not detected in concentrations exceeding the indicated laboratory reporting limit
--	Sampled not tested for respective analyte
‡	Lab note: "Within quantification range, but atypical for fuel pattern."
*	Initial MTBE readings by EPA Method 8020
B-#	Water sample collected from specific soil boring location
(j)	Laboratory noted that TBA concnetration may be slightly biased due to MTBE conversion to TBA

ATTACHMENT A

CLEARWATER GROUP

Groundwater Monitoring and Sampling Field Procedures

Groundwater Monitoring

Prior to beginning, a decontamination area is established. Decontamination procedures consist of scrubbing downhole equipment in an Alconox® solution wash (wash solution is pumped through any purging pumps used), and rinsing in a first rinse of potable water and a second rinse of potable water or deionized water if the latter is required. Any non-dedicated downhole equipment is decontaminated prior to use.

Prior to gauging, purging, and sampling a well, caps for all on-site wells should be opened to allow atmospheric pressure to equalize if local groundwater is under confined or semi-confined conditions. The static water level is measured to the nearest 0.01 feet with an electronic water sounder. Depth to bottom is typically measured once per year, at the request of the project manager, and during Clearwater's first visit to a site. If historical analytical data are not available, with which to establish a reliable order of increasing well contamination, the water sounder and tape will be decontaminated between each well. Floating separate-phase hydrocarbons (SPH) where suspected or observed, will be collected using a clear, open-ended product bailer, and the thickness is measured to the nearest 0.01 feet in the bailer. SPH may alternatively be measured with an electronic interface probe. Any monitoring well containing a measurable thickness of SPH before or during purging is not additionally purged and no sample is collected from that well. Wells containing hydrocarbon sheen are sampled, unless otherwise specified by the project manager. Field observations of well integrity, water level and floating product thicknesses are noted on the Gauging Data/Purge Calculations form.

Well Purging

Each monitoring well to be sampled is purged using either a PVC bailer or a submersible pump. Physical parameters (pH, temperature and conductivity) of the purge water are monitored during purging activities to assess if the water sample collected is representative of the aquifer. If required, parameters such as dissolved oxygen, turbidity, salinity etc. are also measured. Samples are considered representative if parameter stability is achieved. Stability is defined as a change of less than 0.25 pH units, less than 10% change in conductivity in micro mhos, and less than 1.0 degree centigrade (1.8 degrees Fahrenheit) change in temperature. Parameters are measured in a discreet sample decanted from the bailer separately from the rest of the purge water. Parameters are measured at least four times during purging: initially, and at purging volume intervals of one casing volume. Purging continues until three well casing volumes have been removed or until the well completely dewater. Wells that dewater or demonstrate a slow recharge rate may be sampled after fewer than three well volumes have been removed. Well purging information is recorded on the Purge Data sheet. All meters used to measure parameters are calibrated daily. Investigation derived wastes (purge and rinse water) is handled in one of three ways: 1) Purge and rinse water is sealed, labeled, and stored on site in D.O.T.-approved 55-gallon drums. After being chemically profiled, the water is removed to an appropriate disposal facility. 2) Purge and rinse water is collected into a 250-gallon portable holding tank and transported to the Clearwater equipment yard in Point Richmond, CA. At the yard the investigation derived waste is then transferred to 55-gallon drums pending disposal at an appropriate disposal facility, or 3) Purge and rinse water is collected in a 250-gallon portable holding tank and transported to the appropriate disposal facility. The applicable method will be indicated in the field log sheets and the corresponding technical report.

Groundwater Sample Collection

Groundwater samples are collected immediately after purging, with the following exception: If the purging rate exceeds well recharge rate, samples are collected when the well has recharged to at least 80% of its static water level. If recharge is extremely slow, the well is allowed to recharge for at least two hours, if practicable, or until sufficient volume for sampling has accumulated. The well is sampled within 24 hours of purging or is re-purged. Samples are collected using polyethylene bailers, either disposable or dedicated to the well. Samples being analyzed for compounds most sensitive to volatilization are collected first. Water samples are placed in appropriate laboratory-supplied containers, labeled, documented on a chain of custody form and placed on ice in a chilled cooler for transport to a state-certified analytical laboratory. Analytical detection limits match or surpass standards required by relevant local or regional guidelines.

Quality Assurance Procedures

To prevent contamination of the samples, Clearwater personnel adhere to the following procedures in the field:

- A new, clean pair of latex gloves is put on prior to sampling each well.
- Wells are gauged, purged and groundwater samples are collected in the expected order of increasing degree of contamination based on historical analytical results.
- All purging equipment is thoroughly decontaminated between each well, using the procedures previously described at the beginning of this section.
- During sample collection for volatile organic analysis, the amount of air passing through the sample is minimized. This helps prevent the air from stripping the volatiles from the water. Sample bottles are filled by slowly running the sample down the side of the bottle until there is a convex meniscus over the mouth of the bottle. The lid is carefully screwed onto the bottle such that no air bubbles are present within the bottle. If a bubble is present, the cap is removed and additional water is added to the sample container. After resealing the sample container, if bubbles still are present inside, the sample container is discarded and the procedure is repeated with a new container.

Laboratory and field handling procedures may be monitored, if required by the client or regulators, by including quality control (QC) samples for analysis with the groundwater samples. Examples of different types of QC samples are as follows:

- Trip blanks are prepared at the analytical laboratory by laboratory personnel to check field handling procedures. Trip blanks are transported to the project site in the same manner as the laboratory-supplied sample containers to be filled. They are not opened, and are returned to the laboratory with the samples collected. Trip blanks are analyzed for purgeable organic compounds.
- Equipment blanks are prepared in the field to determine if decontamination of field sampling equipment has been effective. The sampling equipment used to collect the groundwater samples is rinsed with distilled water which is then decanted into laboratory-supplied containers. The equipment blanks are transported to the laboratory, and are analyzed for the same chemical constituents as the samples collected at the site.
- Duplicates are collected at the same time standard groundwater samples are collected; They are analyzed for the same compounds in order to verify the reproducibility of laboratory data. They are usually collected from only one well per sampling event. The duplicate is assigned an identification number that will not associate it with the source well.

Generally, trip blanks and field blanks verify field handling and transportation procedures. Duplicates verify laboratory procedures. The configuration of QC samples is determined by Clearwater depending on site conditions and regulatory requirements.

ATTACHMENT B

PURGE DATA SHEET

Job No.: ZB308E Location: 37001 North HWY 1, Westport, CA Date: 8/3/05 Sheet 1 of 1
 Tech: KORNEY BERRY

WELL #	TIME	VOL. (gal.)	ORP	CND	TMP	DO	pH	Fe ²⁺	Fe _T	
MW-1	1007	1.00	NA	549	59.4	NA	6.61	NA	NA	Sample for: <u>50X45</u>
alc. purge	1009	2.00	✓	551	59.4	✓	6.61	✓	✓	TPHg TPHd 8260 <u>LEAD SCAVS 8260B</u>
volume	1012	2.50	✓	547	59.4	✓	6.61	✓	✓	BTEX MTBE Metals
2.42										Purging Method:
										PVC Bailer/Pump/Disp. Bailer

COMMENTS: color, turbidity, recharge, sheen, odor

Light brown, low, good, no sheen, no odor

POST DEPTH TO WATER: 13.02 SAMPLE TIME: 1015

WELL #	TIME	VOL. (gal.)	ORP	CND	TMP	DO	pH	Fe ²⁺	Fe _T	
MW-3										Sample for: <u>50X45</u>
alc. purge										TPHg TPHd 8260 <u>LEAD SCAVS 8260B</u>
volume										BTEX MTBE Metals
										Purging Method:
										PVC Bailer/Pump/Disp. Bailer

COMMENTS: color, turbidity, recharge, sheen, odor

POST DEPTH TO WATER: _____ SAMPLE TIME: 1130

WELL #	TIME	VOL. (gal.)	ORP	CND	TMP	DO	pH	Fe ²⁺	Fe _T	
										Sample for:
alc. purge										TPHg TPHd 8260
ume										BTEX MTBE Metals
										Purging Method:
										PVC Bailer/Pump/Disp. Bailer

COMMENTS: color, turbidity, recharge, sheen, odor

POST DEPTH TO WATER: _____ SAMPLE TIME: _____

ATTACHMENT C



Jessica Chiaro
Clearwater Group, Inc
229 Tewksbury Avenue
Point Richmond, CA 94801

Subject : 2 Water Samples
Project Name : WESTPORT COMMUNITY STORE
Project Number : ZB308E

Dear Ms. Chiaro,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Joel Kiff



Subject : 2 Water Samples
Project Name : WESTPORT COMMUNITY STORE
Project Number : ZB308E

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with sample MW-1 for the analytes Tert-Butanol, Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Surrogate Recovery for Dibromofluoromethane for sample MW-1 for test method EPA 8260B was above control limits. Since 1,2-Dichloroethane and 1,2-Dibromoethane were not detected above the reporting limit in the sample, the data are not flagged.

Approved By: _____


Joel Kiff

Project Name : **WESTPORT COMMUNITY STORE**

Project Number : **ZB308E**

Sample : **MW-1**

Matrix : Water

Lab Number : 45217-01

Sample Date :8/3/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
Methyl-t-butyl ether (MTBE)	130	0.50	ug/L	EPA 8260B	8/6/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
Tert-Butanol	14	5.0	ug/L	EPA 8260B	8/6/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/6/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
Toluene - d8 (Surr)	92.6		% Recovery	EPA 8260B	8/6/2005
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	8/6/2005
Dibromofluoromethane (Surr)	122		% Recovery	EPA 8260B	8/6/2005
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	8/6/2005

Approved By:

Joel Kiff

Project Name : **WESTPORT COMMUNITY STORE**

Project Number : **ZB308E**

Sample : **MW-3**

Matrix : Water

Lab Number : 45217-02

Sample Date :8/3/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
Methyl-t-butyl ether (MTBE)	1.0	0.50	ug/L	EPA 8260B	8/9/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/9/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/9/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	8/9/2005
4-Bromofluorobenzene (Surr)	93.9		% Recovery	EPA 8260B	8/9/2005
Dibromofluoromethane (Surr)	92.2		% Recovery	EPA 8260B	8/9/2005
1,2-Dichloroethane-d4 (Surr)	98.7		% Recovery	EPA 8260B	8/9/2005

Approved By:

Joel Kiff

Report Number : 45217
Date : 8/12/2005

QC Report : Method Blank Data

Project Name : WESTPORT COMMUNITY STORE

Project Number : ZB308E

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005	Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005	Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005	Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005	Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005	Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005	Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005	Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/9/2005	Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/9/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/9/2005	TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/9/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005	1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005	1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	8/9/2005
Toluene - d8 (Surr)	101		%	EPA 8260B	8/9/2005	Toluene - d8 (Surr)	101		%	EPA 8260B	8/9/2005
4-Bromofluorobenzene (Surr)	90.5		%	EPA 8260B	8/9/2005	4-Bromofluorobenzene (Surr)	90.5		%	EPA 8260B	8/9/2005
Dibromofluoromethane (Surr)	93.8		%	EPA 8260B	8/9/2005	Dibromofluoromethane (Surr)	93.8		%	EPA 8260B	8/9/2005
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	8/9/2005	1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	8/9/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005	Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005	Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005	Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005	Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005	Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005	Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005	Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/6/2005	Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/6/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/6/2005	TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/6/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005	1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005	1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	8/6/2005
Toluene - d8 (Surr)	92.8		%	EPA 8260B	8/6/2005	Toluene - d8 (Surr)	92.8		%	EPA 8260B	8/6/2005
4-Bromofluorobenzene (Surr)	105		%	EPA 8260B	8/6/2005	4-Bromofluorobenzene (Surr)	105		%	EPA 8260B	8/6/2005
Dibromofluoromethane (Surr)	119		%	EPA 8260B	8/6/2005	Dibromofluoromethane (Surr)	119		%	EPA 8260B	8/6/2005
1,2-Dichloroethane-d4 (Surr)	107		%	EPA 8260B	8/6/2005	1,2-Dichloroethane-d4 (Surr)	107		%	EPA 8260B	8/6/2005


Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St. Suite 300 Davis, CA 95616 530-297-4800

Report Number : 45217

Date : 8/12/2005

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **WESTPORT COMMUNITY**

Project Number : **ZB308E**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	45254-06	1.6	40.0	40.0	42.4	40.0	ug/L	EPA 8260B	8/9/05	102	96.0	6.08	70-130	25
Toluene	45254-06	1.3	40.0	40.0	38.6	37.9	ug/L	EPA 8260B	8/9/05	93.2	91.5	1.82	70-130	25
Tert-Butanol	45254-06	<5.0	200	200	178	190	ug/L	EPA 8260B	8/9/05	88.8	95.1	6.87	70-130	25
Methyl-t-Butyl Ether	45254-06	0.76	40.0	40.0	35.6	36.7	ug/L	EPA 8260B	8/9/05	87.0	89.9	3.24	70-130	25
Benzene	45199-01	270	40.0	40.0	311	305	ug/L	EPA 8260B	8/6/05	93.2	79.6	15.6	70-130	25
Toluene	45199-01	60	40.0	40.0	97.8	95.9	ug/L	EPA 8260B	8/6/05	93.3	88.4	5.34	70-130	25
Tert-Butanol	45199-01	2200	200	200	2300	2350	ug/L	EPA 8260B	8/6/05	55.7	82.3	38.6	70-130	25
Methyl-t-Butyl Ether	45199-01	2100	40.0	40.0	2130	2090	ug/L	EPA 8260B	8/6/05	101	1.16	195	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 45217


Date : 8/12/2005

QC Report : Laboratory Control Sample (LCS)

Project Name : **WESTPORT COMMUNITY**

Project Number : **ZB308E**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	8/9/05	90.7	70-130
Toluene	40.0	ug/L	EPA 8260B	8/9/05	93.2	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/9/05	91.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/9/05	86.0	70-130
Benzene	40.0	ug/L	EPA 8260B	8/6/05	98.8	70-130
Toluene	40.0	ug/L	EPA 8260B	8/6/05	95.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/6/05	99.8	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/6/05	95.0	70-130


Joel Kiff

Approved By:

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